LIST OF CONTENTS

2003

Vol. 41, No. 1

Review

J. R. B. Mello — 1 Calcinosis—calcinogenic plants

Y. Mahmud, K. Okada, T. Takatani, K. Kawatsu, Y. Hamano, O. Arakawa and T. Noguchi — 13 Intra-tissue distribution of tetrodotoxin in two marine puffers *Takifugu vermicularis* and *Chelonodon patoca*

M. Sasa and S. Vazquez — 19 Snakebite envenomation in Costa Rica: a revision of incidence in the decade 1990–2000

E. Kalapothakis, C. Kushmerick, D. R. Gusmão, G. O. C. Favaron, A. J. Ferreira, M. V. Gomez and A. P. de Almeida — 23 Effects of the venom of a Mygalomorph spider (*Lasiodora* sp.) on the isolated rat heart

R. Angel, G. Delfino and G. J. Parra — 29 Ultrastructural patterns of secretory activity in poison cutaneous glands of larval and juvenile *Dendrobates auratus* (Amphibia, Anura)

B. Žegura, B. Sedmak and M. Filipič — 41 Microcystin-LR induces oxidative DNA damage in human hepatoma cell line HepG2

Y. D. M. Fukuhara, M. L. Reis, R. Dellalibera-Joviliano, F. Q. C. Cunha and E. A. Donadi — 49 Increased plasma levels of IL-1β, IL-6, IL-8, IL-10 and TNF-α in patients moderately or severely envenomed by *Tityus serrulatus* scorpion sting

S. Sriprapat, S. Aeksowan, S. Sapsutthipas, C. Chotwiwatthanakun, P. Suttijitpaisal, R. Pratanaphon, O. Khow, V. Sitprija and K. Ratanabanangkoon — 57 The impact of a low dose, low volume, multi-site immunization on the production of therapeutic antivenoms in Thailand

M. E. Lanio, C. Alvarez, F. Pazos, D. Martinez, Y. Martínez, F. Casallanovo, E. Abuin, S. Schreier and E. Lissi — 65 Effects of sodium dodecyl sulfate on the conformation and hemolytic activity of St I and St II, two isotoxins purified from *Stichodactyla helianthus*

F. V. Moraes, M. C. C. Sousa-e-Silva, K. C. Barbaro, M. A. Leitão and M. F. D. Furtado — 71 Biological and immunochemical characterization of *Micrurus altirostris* venom and serum neutralization of its toxic activities

R. Doley and A. K. Mukherjee — 81 Purification and characterization of an anticoagulant phospholipase A_2 from Indian monocled cobra (*Naja kaouthia*) venom

C. R. C. Pinto-Silva, J. F. Ferreira, R. H. R. Costa, P. B. Filho, E. E. Creppy and W. G. Matias — 93 Micronucleus induction in mussels exposed to okadaic acid

V. A. A. A. de Queiroz Guimarães, S. Hyslop, P. M. F. de Araújo, C. Bon and A. L. de Araújo — 99 *Bothrops lanceolatus* (Fer de lance) venom stimulates leukocyte migration into the peritoneal cavity of mice

T. I. Zaki and J. E. Maruniak — 109 Three polymorphic genes encoding a depressant toxin from the Egyptian scorpion *Leiurus quinquestriatus quinquestriatus*

Short communication

C. Legros, P. E. Bougis and M.-F. Martin-Eauclaire — 115 Characterisation of the genes encoding Aa1 isoforms from the scorpion *Androctonus australis*

121 Bibliography of Toxinology

Mini-review

D. Gordon and M. Gurevitz — 125 The selectivity of scorpion α-toxins for sodium channel subtypes is determined by subtle variations at the interacting surface

A.-R. A. M. Meki, Zeinab M. M. Mohamed and Hasan M. Mohey El-deen — 129 Significance of assessment of serum cardiac troponin I and interleukin-8 in scorpion envenomed children

D. Mebs, U. Kuch, H.-W. Herrmann and T. Ziegler — 139 Biochemical and biological activities of the venom of a new species of pitviper from Vietnam, *Triceratolepidophis sieversorum*

K. J. James, C. Moroney, C. Roden, M. Satake, T. Yasumoto, M. Lehane and A. Furey — 145 Ubiquitous 'benign' alga emerges as the cause of shellfish contamination responsible for the human toxic syndrome, azaspiracid poisoning

L. Spoof, S. Klimova, A. Mikhailov, J. E. Eriksson and J. Meriluoto — 153 Synthesis and organotropism of ^{3}H-dihydro derivatives of the cyanobacterial peptide hepatotoxin nodularin

T. Mejri, L. Borchani, N. Srairi-Abid, R. Benkhalifa, S. Cestele, I. Regaya, H. Karoui, M. Pelhate, H. Rochat and M. El Ayeb — 163 BotIT6: a potent depressant insect toxin from *Buthus occitanus tunetanus* venom

F. V. Coronas, A. R. de Roodt, T. Olamendi-Portugal, F. Z. Zamudio, C. V. F. Batista, F. Gómez-Lagunas and L. D. Possani — 173 Disulfide bridges and blockage of *Shaker* B K^{+}-channels by another butantoxin peptide purified from the Argentinean scorpion *Tityus trivittatus*

L.-s. Chang, R. Lin, K.-c. Chen and C.-c. Chang — 181 Enrichment of the antibodies against the C-terminus of Taiwan cobra cobrotoxin using dimeric glutaraldehyde-modified toxin as an immunogen

P. Vale and M. A. de M. Sampayo — 187 Seasonality of diarrhetic shellfish poisoning at a coastal lagoon in Portugal: rainfall patterns and folk wisdom

H. Taleb, P. Vale and M. Blaghen — 199 Spatial and temporal evolution of PSP toxins along the Atlantic shore of Morocco

K. N. Bradley, E. G. Rowan and A. L. Harvey — 207 Effects of muscarinic toxins MT2 and MT7, from green mamba venom, on m1, m3 and m5 muscarinic receptors expressed in Chinese Hamster Ovary cells

M. T. Assakura, C. A. Silva, R. Mentele, A. C. M. Camargo and S. M. T. Serrano — 217 Molecular cloning and expression of structural domains of bothropasin, a P-III metalloproteinase from the venom of *Bothrops jararaca*

K. Shiomi, T. Honma, M. Ide, Y. Nagashima, M. Ishida and M. Chino — 229 An epidermal growth factor-like toxin and two sodium channel toxins from the sea anemone *Stichodactyla gigantea*

F. Chaves, G. D. Loría, A. Salazar and J. M. Gutiérrez — 237 Intramuscular administration of antivenoms in experimental envenomation by *Bothrops asper*: comparison between Fab and IgG

M. L. Derby, M. Galliano, J. J. Krzanowski and D. F. Martin — 245 Studies of the effect of Ψ-APONIN from *Nannochloris* sp. on the Florida red tide organism *Karenia brevis*

C. J. da Silva, M. T. Jorge and L. A. Ribeiro — 251 Epidemiology of snakebite in a central region of Brazil

Erratum

B. M. Olivera — 257 "Conophysin-R, a *Conus radiatus* venom peptide belonging to the neurophysin family" by M. Lirazan, E.C. Jimenez, A. Grey Craig, B.M. Olivera, L.J. Cruz [Toxicon 40(7) (2002) 901–908]

259 Bibliography of Toxinology

Vol. 41, No. 3

S. C. Araujo, P. Castanheira, L. M. Alvarenga, O. C. Mangili, E. Kalapothakis and C. Chávez-Olórtegui — 261 Protection against dermonecrotic and lethal activities of *Loxosceles intermedia* spider venom by immunization with a fused recombinant protein

A. Kondratiev, R. Hahin and G. F. Tomaselli — 269 Isoform-specific effects of a novel BmK 11(2) peptide toxin on Na channels

K. J. James, M. D. Sierra, M. Lehane, A. B. Magdalena and A. Furey — 277 Detection of five new hydroxyl analogues of azaspiracids in shellfish using multiple tandem mass spectrometry

S. K. Sharma, B. Khanal, P. Pokhrel, A. Khan and S. Koirala — 285 Snakebite-reappraisal of the situation in Eastern Nepal

K. Ito, M. Asakawa, Y. Sida and K. Miyazawa — 291 Occurrence of paralytic shellfish poison (PSP) in the starfish *Asterina pectinifera* collected from the Kure Bay, Hiroshima Prefecture, Japan

A. Furey, J. Crowley, A. N. Shuilleabhain, O. M. Skulberg and K. J. James — 297 The first identification of the rare cyanobacterial toxin, homoanatoxin-a, in Ireland

A. M. D. Carneiro, C. Kushmerick, J. Koenen, M. H. L. Arndt, M. N. Cordeiro, C. Chavez-Olortegui, C. R. Diniz, M. V. Gomez, E. Kalapothakis, M. A. M. Prado and V. F. Prado — 305 Expression of a functional recombinant *Phoneutria nigriventer* toxin active on K^+ channels

E. E. Sánchez, M. S. Ramírez, J. A. Galán, G. López, A. Rodríguez-Acosta and J. C. Pérez — 315 Cross reactivity of three antivenoms against North American snake venoms

S. K. Sharma, M. A. Ramzan and B. R. Singh — 321 Separation of the components of type A botulinum neurotoxin complex by electrophoresis

O. Kumar, K. Sugendran and R. Vijayaraghavan — 333 Oxidative stress associated hepatic and renal toxicity induced by ricin in mice

T. R. Baker, G. J. Doucette, C. L. Powell, G. L. Boyer and F. G. Plumley — 339 GTX_4 imposters: characterization of fluorescent compounds synthesized by *Pseudomonas stutzeri* SF/PS and *Pseudomonas/Alteromonas* PTB-1, symbionts of saxitoxin-producing *Alexandrium* spp.

P. S. M. Vesterkvist and J. A. O. Meriluoto — 349 Interaction between microcystins of different hydrophobicities and lipid monolayers

E. E. Sánchez, J. A. Galán, J. C. Perez, A. Rodríguez-Acosta, P. B. Chase and J. C. Pérez — 357 The efficacy of two antivenoms against the venom of North American snakes

G. D'Suze, S. Moncada, C. González, C. Sevcik, V. Aguilar and A. Alagón — 367 Relationship between plasmatic levels of various cytokines, tumour necrosis factor, enzymes, glucose and venom concentration following *Tityus* scorpion sting

A. C. L. Nobre, A. M. C. Martins, A. Havt, C. Benevides, A. A. M. Lima, M. C. Fonteles and H. S. A. Monteiro — 377 Renal effects of supernatant from rat peritoneal macrophages activated by microcystin-LR: role protein mediators

N. Purali — 383 Stimulation of GABA release by scorpion venom in an isolated synapse in the crayfish (*Astacus leptodactylus)*

Book review

M. Kietzmann — 391 Clincial and Forensic Applications of Capillary Electrophoresis

393 Bibliography of Toxinology

Vol. 41, No. 4

Review

S. Nirthanan, P. Gopalakrishnakone, M. C. E. Gwee, H. E. Khoo and R. M. Kini — 397 Non-conventional toxins from Elapid venoms

D.-Z. Hung, M.-Y. Liau and S.-Y. Lin-Shiau — 409 The clinical significance of venom detection in patients of cobra snakebite

C. Garcia, E. S. Calderón-Aranda, G. A. V. Anguiano, B. Becerril and L. D. Possani — 417 Analysis of the immune response induced by a scorpion venom sub-fraction, a pure peptide and a recombinant peptide, against toxin Cn2 of *Centruroides noxius* Hoffmann

P. G. Gallagher, Y. Bao, S. M. T. Serrano, A. S. Kamiguti, R. D. G. Theakston and J. W. Fox — 429 Use of microarrays for investigating the subtoxic effects of snake venoms: insights into venom-induced apoptosis in human umbilical vein endothelial cells

R. A. Harrison, W. Wüster and R. D. G. Theakston — 441 The conserved structure of snake venom toxins confers extensive immunological cross-reactivity to toxin-specific antibody

M. M. Gehringer, K. S. Downs, T. G. Downing, R. J. Naudé and E. G. Shephard — 451 An investigation into the effect of selenium supplementation on microcystin hepatotoxicity

I. B. Sundell, K. A. Aziz, M. Zuzel, R. David and G. Theakston — 459 The role of phospholipases A_2 in the stimulation of neutrophil motility by cobra venoms

M. Inoue, M. Hirama, M. Satake, K. Sugiyama and T. Yasumoto — 469 Inhibition of brevetoxin binding to the voltage-gated sodium channel by gambierol and gambieric acid-A

S. Luvisetto, O. Rossetto, C. Montecucco and F. Pavone — 475 Toxicity of botulinum neurotoxins in central nervous system of mice

S. Berne, K. Sepčić, I. Križaj, W. R. Kem, J. B. McClintock and T. Turk — 483 Isolation and characterisation of a cytolytic protein from mucus secretions of the Antarctic heteronemertine *Parborlasia corrugatus*

M. H. Toyama, S. Marangoni, J. C. Novello, G. B. Leite, J. Prado-Franceschi, M. A. da Cruz-Höfling and L. Rodrigues-Simioni — 493 Biophysical, histopathological and pharmacological characterization of crotamine isoforms F22 and F32

D. T. Bertazzi, A. I. de Assis-Pandochi, A. E. C. S. Azzolini, V. L. Talhaferro, M. Lazzarini and E. C. Arantes — 501 Effect of *Tityus serrulatus* scorpion venom and its major toxin, TsTX-I, on the complement system in vivo

G. Faure, A. Čopič, S. Le Porrier, F. Gubenšek, C. Bon and I. Križaj — 509 Crotoxin acceptor protein isolated from *Torpedo* electric organ: binding properties to crotoxin by surface plasmon resonance

G. K. Isbister, J. E. Seymour, M. R. Gray and R. J. Raven — 519 Bites by spiders of the family Theraphosidae in humans and canines

Short communications

H. C. Castro, M. G. J. Lemos, C. Bon and R. B. Zingali — 525 Comparative evaluation of immunological and structural similarities of snake venom C-type lectin proteins

P.-A. Hwang, Y.-H. Tsai, Y.-H. Lu and D.-F. Hwang — 529 Paralytic toxins in three new gastropod (Olividae) species implicated in food poisoning in southern Taiwan

M. Lifshitz, N. Maimon and S. Livnat — 535 *Walterinnesia aegyptia* envenomation in a 22-year-old female: a case report

539 Bibliography of Toxinology

Vol. 41, No. 5

Special report

R. D. G. Theakston, D. A. Warrell and E. Griffiths — 541 Report of a WHO workshop on the standardization and control of antivenoms

E. Oyama and H. Takahashi — 559 Purification and characterization of a thrombin like enzyme, elegaxobin II, with lys-bradykinin releasing activity from the venom of *Trimeresurus elegans* (Sakishima-Habu)

Y. Nagashima, M. Toyoda, M. Hasobe, K. Shimakura and K. Shiomi — 569 In vitro accumulation of tetrodotoxin in pufferfish liver tissue slices

P.-C. Shaw, K.-B. Wong, D. S.-B. Chan and R. L. Williams — 575 Structural basis for the interaction of [E160A–E189A]-trichosanthin with adenine

C. Battellino, R. Piazza, A. M. M. da Silva, Y. Cury and S. H. P. Farsky — 583 Assessment of efficacy of bothropic antivenom therapy on microcirculatory effects induced by *Bothrops jararaca* snake venom

A. C. G. Prianti Jr., W. Ribeiro, R. A. B. Lopes-Martins, R. M. Lira-Da-Silva, J. Prado-Franceschi, L. Rodrigues-Simioni, M. A. da Cruz-Höfling, G. B. Leite, S. Hyslop and J. C. Cogo — 595 Effect of *Bothrops leucurus* venom in chick biventer cervicis preparations

Y. Mahmud, O. Arakawa, A. Ichinose, M. B. Tanu, T. Takatani, K. Tsuruda, K. Kawatsu, Y. Hamano and T. Noguchi — 605 Intracellular visualization of tetrodotoxin (TTX) in the skin of a puffer *Tetraodon nigroviridis* by immunoenzymatic technique

P. T. Orr, G. J. Jones, R. A. Hunter and K. Berger — 613 Exposure of beef cattle to sub-clinical doses of *Microcystis aeruginosa*: toxin bioaccumulation, physiological effects and human health risk assessment

T. Koyama, K. Noguchi, T. Matsuzaki, M. Sakanashi, J. Nakasone, K. Miyagi, M. Sakanashi and M. Sakanashi — 621 Haemodynamic effects of the crude venom from nematocysts of the box-jellyfish *Chiropsalmus quadrigatus* (Habu-kurage) in anaesthetized rabbits

Short communication

Y. Bentur and A. Cahana — 633 Unusual local complications of *Vipera palaestinae* bite

T. Honma, T. Iso, M. Ishida, Y. Nagashima and K. Shiomi — 637 Occurrence of type 3 sodium channel peptide toxins in two species of sea anemones

641 Bibliography of Toxinology

Vol. 41, No. 6

Y.-C. Xiao and S.-P. Liang — 643 Purification and characterization of Hainantoxin-V, a tetrodotoxin-sensitive sodium channel inhibitor from the venom of the spider *Selenocosmia hainana*

X.-Z. Zeng, Q.-B. Xiao and S.-P. Liang — 651 Purification and characterization of raventoxin-I and raventoxin-III, two neurotoxic peptides from the venom of the spider *Macrothele raveni*

M. Reali, F. G. Serafim, M. A. da Cruz-Höfling and M. D. Fontana — 657 Neurotoxic and myotoxic actions of *Naja naja kaouthia* venom on skeletal muscle in vitro

M. Chacur, I. Longo, G. Picolo, J. M. Gutiérrez, B. Lomonte, J. L. Guerra, C. F. P. Teixeira and Y. Cury — 667 Hyperalgesia induced by Asp49 and Lys49 phospholipases A_2 from *Bothrops asper* snake venom: pharmacological mediation and molecular determinants

J. E. Church, R. X. Moldrich, P. M. Beart and W. C. Hodgson — 679 Modulation of intracellular Ca^{2+} levels by Scorpaenidae venoms

M. J. Jensen, T. J. Smith, S. A. Ahmed and L. A. Smith — 691 Expression, purification, and efficacy of the type A botulinum neurotoxin catalytic domain fused to two translocation domain variants

S. Ramasamy, G. K. Isbister, J. E. Seymour and W. C. Hodgson — 703 The in vitro effects of two chirodropid (*Chironex fleckeri* and *Chiropsalmus sp.*) venoms: efficacy of box jellyfish antivenom

W.-L. Yang, L.-S. Peng, X.-F. Zhong, J.-W. Wei, X.-Y. Jiang, L.-T. Ye, L. Zou, H.-B. Tu, W.-Y. Wu and A.-l. Xu — 713 Functional expression and characterization of a recombinant phospholipase A_2 from sea snake *Lapemis hardwickii* as a soluble protein in *E. coli*

S. Habtemariam — 723 Cytotoxic and cytostatic activity of erlangerins from *Commiphora erlangeriana*

L. Béress — 729 Obituary to Bruce W. Halstead (1920–2002)

731 Bibliography of Toxinology

Vol. 41, No. 7

S. A. Weinstein — 733 Professor Sherman Anthony Minton 24/2/19–15/6/99

S. Wagner, M. S. Castro, J. A. R. G. Barbosa, W. Fontes, E. N. F. Schwartz, A. Sebben, O. R. Pires Jr., M. V. Sousa and C. A. Schwartz — 737 Purification and primary structure determination of Tf4, the first bioactive peptide isolated from the venom of the Brazilian scorpion *Tityus fasciolatus*

M. Asakawa, T. Toyoshima, K. Ito, K. Bessho, C. Yamaguchi, S. Tsunetsugu, Y. Shida, H. Kajihara, S. F. Mawatari, T. Noguchi and K. Miyazawa — 747 Paralytic toxicity in the ribbon worm *Cephalothrix* species (Nemertea) in Hiroshima Bay, Hiroshima Prefecture, Japan and the isolation of tetrodotoxin as a main component of its toxins

F. C. Cardoso, L. G. Pacífico, D. C. Carvalho, J. M. N. Victória, A. L. G. Neves, C. Chávez-Olórtegui, M. V. Gomez and E. Kalapothakis — 755 Molecular cloning and characterization of *Phoneutria nigriventer* toxins active on calcium channels

W.-H. Lee, Q.-Y. Zhuang and Y. Zhang — 765 Cloning and characterization of a blood coagulation factor IX-binding protein from the venom of *Trimeresurus stejnegeri*

R. E. Guzman, P. F. Solter and M. T. Runnegar — 773 Inhibition of nuclear protein phosphatase activity in mouse hepatocytes by the cyanobacterial toxin microcystin-LR

A. Tubaro, S. Sosa, M. Carbonatto, G. Altinier, F. Vita, M. Melato, M. Satake and T. Yasumoto — 783 Oral and intraperitoneal acute toxicity studies of yessotoxin and homoyessotoxins in mice

W.-H. Liu, L. Wang, Y.-L. Wang, L.-S. Peng, W.-Y. Wu, W.-L. Peng, X.-Y. Jiang, H.-B. Tu, H.-P. Chen, P. Ou-Yang and A.-L. Xu — 793 Cloning and characterization of a novel neurotoxin from the sea anemone *Anthopleura* sp.

E. Hansen, H.Chr. Eilertsen, A. Ernstsen and A.-M. Geneviève — 803 Anti-mitotic activity towards sea urchin embryos in extracts from the marine haptophycean *Phaeocystis pouchetii* (Hariot) Lagerheim collected along the coast of northern Norway

L. DaSilva, D. Cote, C. Roy, M. Martinez, S. Duniho, M. L. M. Pitt, T. Downey and M. Dertzbaugh — 813 Pulmonary gene expression profiling of inhaled ricin

P. R. S. Câmara, L. C. M. Esquisatto, E. A. Camargo, M. T. C. P. Ribela, M. H. Toyama, S. Marangoni, G. De Nucci and E. Antunes — 823 Inflammatory oedema induced by phospholipases A_2 isolated from *Crotalus durissus* sp. in the rat dorsal skin: a role for mast cells and sensory C-fibers

C. S. Seibert, E. M. G. Shinohara and I. S. Sano-Martins — 831 In vitro hemolytic activity of *Lonomia obliqua* caterpillar bristle extract on human and Wistar rat erythrocytes

A. L. C. Silva, A. C. G. Horta, R. A. Moreira, L. M. Beltramini and A. P. U. Araújo — 841 — Production of *Abrus pulchellus* ribosome-inactivating protein from seeds callus culture

V. Arce, E. Rojas, C. L. Ownby, G. Rojas and J. M. Gutiérrez — 851 — Preclinical assessment of the ability of polyvalent (Crotalinae) and anticoral (Elapidae) antivenoms produced in Costa Rica to neutralize the venoms of North American snakes

N. Oršolić, L. Šver, S. Verstovšek, S. Terzić and I. Bašić — 861 — Inhibition of mammary carcinoma cell proliferation in vitro and tumor growth in vivo by bee venom

M. M. Gehringer, V. Kewada, N. Coates and T. G. Downing — 871 — The use of *Lepidium sativum* in a plant bioassay system for the detection of microcystin-LR

G. K. Isbister, E. S. Volschenk, C. R. Balit and M. S. Harvey — 877 — Australian scorpion stings: a prospective study of definite stings

W.-H. Lee and Y. Zhang — 885 — Molecular cloning and characterization of a platelet glycoprotein Ib-binding protein from the venom of *Trimeresurus stejnegeri*

M. Yotsu-Yamashita and D. Mebs — 893 — Occurrence of 11-oxotetrodotoxin in the red-spotted newt, *Notophthalmus viridescens*, and further studies on the levels of tetrodotoxin and its analogues in the newt's efts

S. C. Sampaio, P. Brigatte, M. C. C. Sousa-e-Silva, E. C. dos-Santos, A. C. Rangel-Santos, R. Curi and Y. Cury — 899 — Contribution of crotoxin for the inhibitory effect of *Crotalus durissus terrificus* snake venom on macrophage function

C. L. Fortes-Dias, C. J. Barcellos and M. I. Estevão-Costa — 909 — Molecular cloning of a γ-phospholipase A_2 inhibitor from *Lachesis muta muta* (the bushmaster snake)

M.-Y. B. Dechraoui and J. S. Ramsdell — 919 — Type B brevetoxins show tissue selectivity for voltage-gated sodium channels: comparison of brain, skeletal muscle and cardiac sodium channels

Short communication

K. N. C. Castro, A. L. O. Carvalho, A. P. Almeida, D. B. Oliveira, H. R. Borba, S. S. Costa and R. B. Zingali — 929 — Preliminary in vitro studies on the *Marsypianthes chamaedrys* (boia-caá) extracts at fibrinoclotting induced by snake venoms

R. M. T. Medeiros, R. C. Barbosa, F. Riet-Correa, E. F. Lima, I. M. Tabosa, S. S. de Barros, D. R. Gardner and R. J. Molyneux — 933 — Tremorgenic syndrome in goats caused by *Ipomoea asarifolia* in Northeastern Brazil

937 — Bibliography of Toxinology

Vol. 41, No. 8

Editorial

A. Harvey — 939 — Testing of natural remedies for natural toxins

K. Bharati, S. S. Hasson, J. Oliver, G. D. Laing, R. D. G. Theakston and R. A. Harrison — 941 — Molecular cloning of phospholipases A_2 from venom glands of *Echis* carpet vipers

A. R. de Roodt, S. Litwin and J. C. Vidal — 949 — Hemorrhagic activity of *Bothrops* venoms determined by two different methods and relationship with proteolytic activity on gelatin and lethality

A. Padilla, T. Govezensky, L. D. Possani and C. Larralde — 959 — Experimental envenoming of mice with venom from the scorpion *Centruroides limpidus limpidus*: differences in mortality and symptoms with and without antibody therapy relating to differences in age, sex and strain of mouse

A. Franchini, A. Milandri, R. Poletti and E. Ottaviani — 967 — Immunolocalization of yessotoxins in the mussel *Mytilus galloprovincialis*

A. R. de Roodt, S. I. García, O. D. Salomón, L. Segre, J. A. Dolab, R. F. Funes and E. H. de Titto	971	Epidemiological and clinical aspects of scorpionism by *Tityus trivittatus* in Argentina
P.-J. Senogles-Derham, A. Seawright, G. Shaw, W. Wickramisingh and M. Shahin	979	Toxicological aspects of treatment to remove cyanobacterial toxins from drinking water determined using the heterozygous P53 transgenic mouse model
F. V. Coronas, M. Stankiewicz, C. V. F. Batista, S. Giraud, J. M. Alam, L. D. Possani, D. Mebs and M. Pelhate	989	Primary structure and electrophysiological characterization of two almost identical isoforms of toxin from *Isometrus vittatus* (family: Buthidae) scorpion venom
R. Frangež, M. C. Žužek, J. Mrkun, D. Šuput, B. Sedmak and M. Kosec	999	Microcystin-LR affects cytoskeleton and morphology of rabbit primary whole embryo cultured cells in vitro
O. Acosta, L. C. Leiva, M. E. Peichoto, S. Maruñak, P. Teibler and L. Rey	1007	Hemorrhagic activity of the Duvernoy's gland secretion of the xenodontine colubrid *Philodryas patagoniensis* from the north-east region of Argentina
L. Chanhome, O. Khow, T. Omori-Satoh and V. Sitprija	1013	Antihemorrhagin in the blood serum of king cobra (Ophiophagus hannah): purification and characterization
E. F. Sanchez, C. T. Souza, C. A. Bello, M. Richardson, E. B. Oliveira and A. Magalhaes	1021	Resolution of isoforms of mutalysin II, the metalloproteinase from bushmaster snake venom
M. H. Toyama, D. G. de Oliveira, L. O. S. Beriam, J. C. Novello, L. Rodrigues-Simioni and S. Marangoni	1033	Structural, enzymatic and biological properties of new PLA_2 isoform from *Crotalus durissus terrificus* venom
A. A. Gonçalves, M. H. Toyama, E. M. Carneiro, S. Marangoni, E. C. Arantes, J. R. Giglio and A. C. Boschero	1039	Participation of Na^+ channels in the potentiation by *Tityus serrulatus* α-toxin TsTx-V of glucose-induced electrical activity and insulin secretion in rodent islet β-cells
A. Poapolathep, Y. Sugita-Konishi, K. Doi and S. Kumagai	1047	The fates of trichothecene mycotoxins, nivalenol and fusarenon-X, in mice
	1055	Bibliography of Toxinology